## **EAST Search History**

## EAST Search History (Prior Art)

| Ref# | Hits  | Search Query  | DBs                                       | Default<br>Operator | Plurals | Time Stamp          |
|------|-------|---|---|---------------------|---------|---------------------|
| L2   | 76557 | emulsion with form\$6   | USPAT                                     | OR                  | OFF     | 2010/06/11<br>11:46 |
| L3   | 30    | emulsion near2 form\$6 same alkoxide  | USPAT                                     | OR                  | OFF     | 2010/06/11<br>11:47 |
| L4   | 62    | alkali with stabiliz\$ with aggregat \$   | US-PGPUB;<br>USPAT                        | OR                  | ON      | 2010/06/11<br>11:52 |
| L5   | 966   | 423/593.1.cols.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2010/06/11<br>12:05 |
| L6   | 647   | 423/592.1.cols.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2010/06/11<br>12:05 |
| L7   | 587   | L6 not L5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2010/06/11<br>12:05 |
| L13  | 16    | ("3665041"   "3764540"  <br>"3843540"   "4094804"  <br>"4523039"   "4990283"  <br>"5049307"   "5147573"  <br>"5147841"   "5238671"  <br>"5382614").PN. OR ("5670088").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR                  | OFF     | 2010/06/11<br>12:49 |
| L14  | 6     | (alkoxide with organic with aqueous with emuls\$4) same catalyst  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2010/06/11<br>13:34 |
| L15  | 169   | 423/594.12.cds.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2010/06/11<br>15:16 |
| L16  | 19    | microemulsion same (metal with oxide) and (alkoxide with salt)  | US-PGPUB;<br>USPAT                        | OR                  | ON      | 2010/06/11<br>15:28 |
| L17  | 73    | zirconium with hydroxide with<br>cerium with (butoxide or<br>methoxide or alkoxide)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2010/06/11<br>15:31 |
| S1   | 0     | "2002132732"  | US-PGPUB                                  | OR                  | OFF     | 2006/04/24<br>15:51 |
| S2   | 47    | egami.in.   | US-PGPUB                                  | OR                  | OFF     | 2006/04/24<br>16:05 |

| S3         | 9     | "5242674"  | USPAT                                     | OR | OFF | 2006/04/24<br>16:08 |
|------------|-------|--|---|----|-----|---------------------|
| S4         | 5     | (zirconium with alkoxide with organic) same (cerium with (aqueous or water)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>17:42 |
| S5         | 84    | (zirconium with alkoxide with organic) same (cerium )                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:17 |
| S6         | 79    | 95 not 94  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:17 |
| S7         | 0     | (zirconium with hydroliz with organic) same (cerium with salt)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:45 |
| <b>S</b> 8 | 0     | (zirconium with hydroliz with alkoxide) same (cerium with salt)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:46 |
| S9         | 0     | (zirconium with cerium with oxide) same hydroliz same salt                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:47 |
| S10        | 0     | (zirconium with cerium with oxide) same hydroliz\$5 same salt                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:47 |
| S11        | 0     | (zirconium with cerium with oxide) same hydrolis\$5 same salt                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:47 |
| S12        | 0     | (zirconium with cerium with oxide) same hydrolis\$5                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:48 |
| S13        | 1     | (zirconium with cerium with oxide) same hydroliz\$5                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:48 |
| S14        | 11008 | (zirconium with cerium with oxide)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:48 |
| S15        | 128   | (zirconium with cerium with oxide) same alkoxide                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/24<br>16:48 |

| S16 | 59  | (zirconium with cerium with oxide) same alkoxide same salt  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>17:31 |
|-----|-----|---|---|----|----|---------------------|
| S17 | 1   | "20040171483"   | US-PGPUB                                  | OR | ON | 2006/04/24<br>17:31 |
| S18 | 6   | (zirconium with (alkoxide or<br>methoxide or butoxide) with<br>organic) same (cerium with<br>(aqueous or water))                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>17:42 |
| S19 | 1   | S18 not S4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>17:48 |
| S20 | 675 | zirconium with hydroxide with cerium  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>17:49 |
| S21 | 545 | zirconium with hydroxide with cerium with oxide   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>17:49 |
| S22 | 47  | zirconium with hydroxide with<br>cerium with (butoxide or<br>methoxide or alkoxide)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>17:52 |
| S23 | 72  | (zirconium with (alkoxide or<br>methoxide or butoxide)) same<br>(cerium with (chloride or nitrate<br>or sulfate))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>17:57 |
| S24 | 41  | (zirconium with (alkoxide or<br>methoxide or butoxide)) same<br>(cerium with (chloride or nitrate<br>or sulfate)) and hydroxide | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>18:03 |
| S25 | 39  | (zirconium with cerium with oxide) same alkoxide same hydroxide   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/24<br>18:04 |
| S26 | 32  | (zirconium with cerium with oxide) same (aqueous near4 salt) same hydroxide   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/25<br>09:59 |
| S27 | 1   | (zirconium with cerium with oxide) same (aqueous near4 salt) same hydroxide same emuls\$4                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/04/25<br>10:02 |
| S28 | 10  | (zirconium with cerium with oxide) same (organic with aqueous with phas\$4)   | US-PGPUB;<br>USPAT;<br>USOOR;<br>EPO; JPO | OR | ON | 2006/04/25<br>10:08 |

| S29         | 239  | (zirconium with cerium with oxide) same emuls\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>10:12 |
|-------------|------|---|---|----|-----|---------------------|
| S30         | 1    | (zirconium with cerium with oxide) same emuls\$4 same alkoxide  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>10:09 |
| S31         | 151  | (zirconium with cerium with oxide) same emuls\$4 and catal\$5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>10:12 |
| S32         | 6    | (zirconium with (alkoxide or<br>methoxide or butoxide) with<br>organic) same (cerium with<br>(aqueous or water))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>11:13 |
| <b>S3</b> 3 | 1    | (zirconium near2 (alkoxide or<br>methoxide or butoxide) with<br>organic) same (cerium with<br>(aqueous or water)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>11:49 |
| S34         | 2486 | (zirconium near2 (alkoxide or methoxide or butoxide) )  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>11:50 |
| S35         | 0    | (zirconium near2 (alkoxide or<br>methoxide or butoxide) same<br>hydroliz\$4 same cerium)                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>11:50 |
| S36         | 92   | (zirconium near2 (alkoxide or<br>methoxide or butoxide) same<br>cerium)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>12:06 |
| S37         | 10   | (zirconium near2 (alkoxide or<br>methoxide or butoxide) same<br>cerium) and emuls\$4                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>12:27 |
| S38         | 4    | (alkoxide with organic with aqueous with emuls\$4) same catalyst  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>12:28 |
| S39         | 9    | (alkoxide with organic with aqueous with emuls\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/25<br>12:28 |
| S40         | 51   | takeshima-shinichi.in.  | US-PGPUB;<br>USPAT                        | OR | OFF | 2006/04/28<br>18:47 |
| S41         | 10   | takeshima-shinichi.in. and zirconium  | US-PGPUB;<br>USPAT                        | OR | OFF | 2006/04/28<br>18:47 |
| S42         | 3    | takeshima-shinichi.in. and<br>alkoxide  | US-PGPUB;<br>USPAT                        | OR | ON  | 2006/04/28<br>18:48 |
| S43         | 1    | "20040171483"   | US-PGPUB                                  | OR | OFF | 2007/04/26<br>13:50 |

| S44 | 0   | microemulsion with optimiz\$4<br>with size                         | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/05<br>16:08 |
|-----|-----|--|--------------------|----|-----|---------------------|
| S45 | 43  | microemulsion with vary\$4 with size                               | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/05<br>16:08 |
| S46 | 240 | microemulsion same (metal with oxide)                              | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>10:39 |
| S47 | 1   | "5670088".pn.  | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/05<br>16:34 |
| S48 | 0   | alkoxide with (solub\$8 or dissolv<br>\$4) with perfluoropolyether | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/05<br>16:36 |
| S49 | 11  | alkoxide with perfluoropolyether                                   | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/05<br>16:35 |
| S50 | 3   | alkoxide same (solub\$8 or dissolv<br>\$4) same perfluoropolyether | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/05<br>16:36 |
| S51 | 11  | microemulsion same (metal with oxide) and (alkoxide with salt)     | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>10:39 |
| S52 | 7   | microemulsion same alkoxide  | USPAT              | OR | OFF | 2007/09/06<br>12:25 |
| S53 | 37  | microemulsion same alkoxide  | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>12:25 |
| S54 | 30  | S53 not S52  | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>13:17 |
| S55 | 301 | microemulsion same hydrocarbon same size                           | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>13:28 |
| S56 | 301 | microemulsion same hydrocarbon and (metal with oxide)              | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>13:25 |
| S57 | 154 | S56 not S55  | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>13:25 |
| S58 | 147 | microemulsion same hydrocarbon same size and (metal with oxide)    | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>13:37 |
| S60 | 329 | 423/263.ccls. and zirconium  | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>13:38 |
| S61 | 80  | 423/263.ccls. and zirconium and alkoxide                           | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>13:46 |
| S62 | 6   | 423/263.ccls. and zirconium and (alkoxide same hydrocarbon)        | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>15:27 |
| S63 | 1   | "4983217".pn.  | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>16:10 |
| S64 | 0   | perfluorether same hydrocarbon same microemulsion                  | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>16:10 |
| S65 | 2   | perfluoropolyether same<br>hydrocarbon same microemulsion          | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>16:11 |
| S66 | 28  | perfluoropolyether same hydrocarbon and microemulsion              | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>16:15 |
| S67 | 636 | microemulsion and hydrocarbon and alkoxide                         | US-PGPUB;<br>USPAT | OR | ON  | 2007/09/06<br>16:15 |

| S68 | 185   | microemulsion and hydrocarbon<br>and alkoxide and (metal with<br>oxide)   | US-PGPUB;<br>USPAT                        | OR | ON  | 2007/09/06<br>16:16 |
|-----|-------|---|---|----|-----|---------------------|
| S69 | 97    | 423/263.ccls. and zirconium and alkoxide  | US-PGPUB;<br>USPAT                        | OR | ON  | 2008/12/31<br>16:22 |
| S70 | 1136  | 423/263.ccls.   | US-PGPUB;<br>USPAT                        | OR | ON  | 2008/12/31<br>16:26 |
| S71 | 390   | 423/263.ccls. and zirconium   | US-PGPUB;<br>USPAT                        | OR | ON  | 2008/12/31<br>16:26 |
| S72 | 17    | ("3665041"   "3784471"  <br>"4523039"   "4599184"  <br>"4613520"   "4981819"  <br>"4990283"   "5049307"  <br>"5180512"   "5238671"  <br>"5484766").PN. OR ("5725802").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR | OFF | 2009/05/10<br>15:41 |
| S73 | 11    | ("4619908"   "4636248"  <br>"4732750").PN. OR ("5023071").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR | OFF | 2009/05/10<br>15:59 |
| S74 | 478   | 516/53.cds.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/05/10<br>16:58 |
| S75 | 46    | 516/53.cds. and (double compound) with oxide  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/05/10<br>16:58 |
| S76 | 73513 | emulsion with form\$6   | USPAT                                     | OR | OFF | 2009/05/11<br>08:53 |
| S77 | 36698 | emulsion near2 form\$6  | USPAT                                     | OR | OFF | 2009/05/11<br>08:53 |
| S78 | 3803  | emulsion near2 form\$6 and metal with oxide   | USPAT                                     | OR | OFF | 2009/05/11<br>08:54 |
| S79 | 731   | emulsion near2 form\$6 same<br>organ\$4 and aqueous and metal<br>with oxide   | USPAT                                     | OR | OFF | 2009/05/11<br>08:54 |
| S80 | 356   | emulsion near2 form\$6 same<br>organ\$4 same aqueous and<br>metal with oxide  | USPAT                                     | OR | OFF | 2009/05/11<br>08:54 |
| S81 | 29    | emulsion near2 form\$6 same<br>alkoxide   | USPAT                                     | OR | OFF | 2009/05/11<br>09:03 |
| S82 | 105   | alkali with stabiliz\$ with colloid   | US-PGPUB;<br>USPAT                        | OR | ON  | 2009/05/11<br>10:08 |
| S83 | 54    | alkali with stabiliz\$ with aggregat<br>\$  | US-PGPUB;<br>USPAT                        | OR | ON  | 2009/05/11<br>10:08 |
| S84 | 1066  | (alkoxide with organic) same<br>(salt with (aqueous or water))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2010/01/30<br>21:25 |

| S85 | 321 | (alkoxide with organic) same<br>(salt with (aqueous or water))<br>and (emulsion<br>"microemulsion" (micro near2<br>emulsion))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:26 |
|-----|-----|---|---|----|----|---------------------|
| S86 | 230 | (alkoxide with organic with<br>hydroxide) same (salt with<br>(aqueous or water)) and<br>(emulsion<br>"microemulsion" (micro near2<br>emulsion))                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:44 |
| S87 | 1   | (alkoxide with organic with<br>hydroxide) same (interface<br>border) same (salt with (aqueous<br>or water)) and (emulsion<br>"microemulsion" (micro near2<br>emulsion)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:44 |
| S88 | 1   | (alkoxide with organic with hydroxide) same (interfac\$ border) same (salt with (aqueous or water)) and (emulsion "microemulsion" (micro near2 emulsion))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:45 |
| S89 | 486 | (alkoxide with organic with<br>hydroxide) same (salt with<br>(aqueous or water))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:50 |
| S90 | 1   | (alkoxide with organic with<br>hydroxide) same interfac\$ same<br>(salt with (aqueous or water))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:50 |
| S91 | 252 | (alkoxide near2 hydroxide with organic) same (salt with (aqueous or water))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:50 |
| S92 | 161 | 423/594.12.cds.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:57 |
| S93 | 15  | 423/594.12.cds. and emuls\$   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:57 |
| S94 | 8   | 423/594.12.cds. and emuls\$ and alkoxide  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>21:58 |
| S95 | 18  | 423/593.1.cds. and emuls\$ and alkoxide   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2010/01/30<br>22:01 |

| S96  | 37  | 423/593.1.cds. and emuls\$           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2010/01/30<br>22:09 |
|------|-----|--------------------------------------|---|----|-----|---------------------|
| S97  | 19  | S96 not S95                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2010/01/30<br>22:09 |
| S98  | 7   | S93 not S94                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2010/01/30<br>22:41 |
| S99  | 966 | 423/593.1.ccls.                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2010/06/08<br>14:39 |
| S100 | 647 | 423/592.1.ccls.                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2010/06/10<br>15:30 |
| S101 | 81  | 423/592.1,593.1.cds. and emuls<br>\$ | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2010/06/10<br>15:31 |
| S102 | 77  | takeshima-shinichi.in.               | US-PGPUB;<br>USPAT                        | OR | OFF | 2010/06/10<br>17:43 |
| S103 | 18  | takeshima-shinichi.in. and alkoxide  | US-PGPUB;<br>USPAT                        | OR | ON  | 2010/06/10<br>17:43 |

## EAST Search History (Interference)

## 6/11/2010 3:40:24 PM

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<sup>&</sup>lt;This search history is empty>